

**SAFETY DATA SHEET**

Revision Date: 01/07/2017

Print Date: 1/16/2017

SDS Number: R0279263

Version: 1.5

Pliogrip™ 7400 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 163992

29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION****Product identifier**

Trade name : Pliogrip™ 7400  
 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered in  
 various countries

**Relevant identified uses of the substance or mixture and uses advised against**

Recommended use : Adhesives

**Details of the supplier of the safety data sheet**

Ashland  
 P.O. Box 2219  
 Columbus, OH 43216  
 United States of America (USA)  
 614-790-3333

EHSProductSafety@ashland.com

**Emergency telephone number**

1-800-ASHLAND (1-800-274-5263)

**Regulatory Information Number**

1-800-325-3751

**Product Information**

614-790-3333

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Skin irritation : Category 2

Eye irritation : Category 2A

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Specific target organ  
 systemic toxicity - single  
 exposure : Category 3 (Respiratory system)

Specific target organ  
 systemic toxicity - repeated  
 exposure (Inhalation) : Category 2 (Respiratory system, Respiratory Tract)

**SAFETY DATA SHEET**

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163992

**GHS label elements**

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: Causes skin irritation.  
 May cause an allergic skin reaction.  
 Causes serious eye irritation.  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 May cause respiratory irritation.  
 May cause damage to organs (Respiratory system, Respiratory Tract) through prolonged or repeated exposure if inhaled.

Precautionary Statements

: **Prevention:**  
 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
 Wash skin thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves/ eye protection/ face protection.  
 In case of inadequate ventilation wear respiratory protection.  
**Response:**  
 IF ON SKIN: Wash with plenty of soap and water.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If skin irritation or rash occurs: Get medical advice/ attention.  
 If eye irritation persists: Get medical advice/ attention.  
 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 Take off contaminated clothing and wash before reuse.  
**Storage:**  
 Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
**Disposal:**  
 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SAFETY DATA SHEET**

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Version: 1.5

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 163992

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (%)
POLYMER	254504001-5759	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Resp. Sens. 1A; H334 Skin Sens. 1A; H317 STOT SE 3; H335 STOT RE 2; H373	>= 10.00 - < 15.00
SCAVENGER	254504001-5709	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	>= 10.00 - < 15.00
URETHANE PREPOLYMER	800986-5572P	Resp. Sens. 1; H334 Skin Sens. 1; H317	>= 5.00 - < 10.00

The identity and concentration of one or more component(s) is being withheld under business confidentiality.

4,4'-DIPHENYLMETHANE DIISOCYANATE	101-68-8	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Resp. Sens. 1; H334	35.5153
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**SAFETY DATA SHEET**

Revision Date: 01/07/2017

Print Date: 1/16/2017

SDS Number: R0279263

Version: 1.5

Pliogrip™ 7400 ADHESIVE  
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 in various countries  
 163992

		Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	
TALC	14807-96-6	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	10.224
PROPYLENE CARBONATE	108-32-7	Eye Irrit. 2A; H319	1.4964

**SECTION 4. FIRST AID MEASURES**

- General advice** : Move out of dangerous area.  
 Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.  
 Show this safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled** : Move to fresh air.  
 Call a physician or poison control centre immediately.  
 Keep patient warm and at rest.  
 If unconscious, place in recovery position and seek medical advice.
- In case of skin contact** : Remove contaminated clothing. If irritation develops, get medical attention.  
 If on skin, rinse well with water.  
 Wash contaminated clothing before re-use.
- In case of eye contact** : Immediately flush eye(s) with plenty of water.  
 Remove contact lenses.  
 Protect unharmed eye.
- If swallowed** : Obtain medical attention.  
 Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.



<b>SAFETY DATA SHEET</b>	Revision Date: 01/07/2017
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	SDS Number: R0279263
Pliogrip™ 7400 ADHESIVE ™ Trademark, Ashland or its subsidiaries, registered in various countries 163992	Version: 1.5

- Most important symptoms and effects, both acute and delayed
- : Pulmonary edema may be delayed.
  - Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
    - stomach or intestinal upset (nausea, vomiting, diarrhea)
    - irritation (nose, throat, airways)
    - Cough
    - Headache
    - chest pain
    - lung edema (fluid buildup in the lung tissue)
    - Difficulty in breathing
    - Causes skin irritation.
    - May cause an allergic skin reaction.
    - Causes serious eye irritation.
    - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
    - May cause respiratory irritation.
- Notes to physician
- : No hazards which require special first aid measures.

## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media
- : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
  - Water spray
  - Foam
  - Carbon dioxide (CO<sub>2</sub>)
  - Dry chemical
- Unsuitable extinguishing media
- : High volume water jet
- Specific hazards during firefighting
- : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products
- : carbon dioxide and carbon monoxide
  - Hydrogen cyanide (hydrocyanic acid)
  - Isocyanates
  - Nitrogen oxides (NO<sub>x</sub>)
  - Bromine
  - Hydrocarbons
- Specific extinguishing methods
- :



<b>SAFETY DATA SHEET</b>	Revision Date: 01/07/2017
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	SDS Number: R0279263
Pliogrip™ 7400 ADHESIVE ™ Trademark, Ashland or its subsidiaries, registered in various countries 163992	Version: 1.5

Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

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## SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid formation of aerosol.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Container hazardous when empty.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

**SAFETY DATA SHEET**

Revision Date: 01/07/2017

Print Date: 1/16/2017

SDS Number: R0279263

Version: 1.5

Pliogrip™ 7400 ADHESIVE  
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 163992

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
 Observe label precautions.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
SCAVENGER	254504001-5709	TWA	1 mg/m3 Respirable fraction (Aluminium)	ACGIH

The identity and concentration of one or more component(s) is being withheld under business confidentiality.

4,4-DIPHENYLMETHANE DIISOCYANATE	101-68-8	TWA	0.005 ppm	ACGIH
		TWA	0.005 ppm 0.05 mg/m3	NIOSH REL
		C	0.02 ppm 0.2 mg/m3	NIOSH REL
		C	0.02 ppm 0.2 mg/m3	OSHA Z-1
		C	0.02 ppm 0.2 mg/m3	OSHA P0
		PEL	0.005 ppm 0.051 mg/m3	CAL PEL
TALC	14807-96-6	TWA	20 Million particles per cubic foot Dust	OSHA Z-3
		TWA	2 mg/m3 respirable dust fraction	OSHA P0
		TWA	2 mg/m3 Respirable	NIOSH REL
		PEL	2 mg/m3 Respirable dust	CAL PEL
		TWA	0.1 fibre/cm3	ACGIH
		TWA	2 mg/m3 Respirable fraction	ACGIH

**Hazardous components without workplace control parameters**

**SAFETY DATA SHEET**

Revision Date: 01/07/2017

Print Date: 1/16/2017

SDS Number: R0279263

Version: 1.5

Pliogrip™ 7400 ADHESIVE  
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 in various countries  
 163992

Components	CAS-No.
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**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

**Personal protective equipment**

**Respiratory protection** : In the case of vapour formation use a respirator with an approved filter.  
 Diisocyanates have poor warning properties. An air-purifying respirator with an organic vapor cartridge and an N95 prefilter can be used safely and effectively to reduce exposure, provided that appropriate cartridge change schedules are developed to ensure that cartridges are changed before breakthrough occurs. The employer is required to select the appropriate respirator for each situation and must consider potential exposure to chemicals in addition to diisocyanates.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

**Hand protection**

**Remarks** : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection** : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

**Skin and body protection** : Wear as appropriate:  
 Impervious clothing  
 Safety shoes  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or signs of wear. Wear resistant gloves (consult your safety equipment supplier).

**Hygiene measures** : Wash hands before breaks and at the end of workday. When using do not eat or drink.



**SAFETY DATA SHEET**

Revision Date: 01/07/2017

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SDS Number: R0279263

Version: 1.5

Pliogrip™ 7400 ADHESIVE  
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 163992

When using do not smoke.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: viscous
Physical state	: liquid
Colour	: beige
Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: > 392 °F / > 200 °C
Flash point	: > 100 °C
Evaporation rate	: < 1 n-Butyl Acetate
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: < 0.01333 hPa (25 °C)
Relative vapour density	: > 1AIR=1
Relative density	: No data available
Density	: 1.288 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	
Water solubility	: practically insoluble
Solubility in other solvents	: No data available

**SAFETY DATA SHEET**

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Print Date: 1/16/2017

SDS Number: R0279263

Version: 1.5

Pliogrip™ 7400 ADHESIVE  
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163992

Partition coefficient: n-  
octanol/water : No data available

Thermal decomposition : No data available

Viscosity  
Viscosity, dynamic : ca. 20,000 mPa.s

Viscosity, kinematic : No data available

Oxidizing properties : No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous  
reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : Freezing temperatures.  
Exposure to moisture

Incompatible materials : Acids  
Alcohols  
aluminum  
Amines  
Ammonia  
Bases  
Copper alloys  
fluorides  
Iron  
Oxidizing agents  
strong alkalis  
strong reducing agents  
water  
Zinc  
Humid air

Hazardous decomposition  
products : carbon dioxide and carbon monoxide  
Hydrocarbons  
Hydrogen cyanide (hydrocyanic acid)  
Isocyanates  
Nitrogen oxides (NO<sub>x</sub>)

**SAFETY DATA SHEET**

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Print Date: 1/16/2017

SDS Number: R0279263

Version: 1.5

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 in various countries  
 163992

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : Inhalation  
 Skin contact  
 Eye Contact  
 Ingestion

**Acute toxicity**

Not classified based on available information.

**Components:****POLYMER:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
 Method: OECD Test Guideline 425  
 GLP: yes

Acute inhalation toxicity : Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.

Acute dermal toxicity : (Rabbit): > 9,400 mg/kg  
 Remarks: Information given is based on data obtained from similar substances.

**Components:****4,4'-DIPHENYLMETHANE DIISOCYANATE:**

Acute oral toxicity : LD50 (Rat): 9,200 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.369 mg/l  
 Exposure time: 4 h

LC50 (Rat): > 2.24 mg/l  
 Exposure time: 1 h  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403  
 Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.

Acute dermal toxicity : LD50 (Rabbit): > 7,900 mg/kg

**PROPYLENE CARBONATE:**

Acute oral toxicity : LD50 (Rat): 29.1 g/kg

Acute dermal toxicity : LD50 (Rabbit): > 24 g/kg

**Skin corrosion/irritation**

Causes skin irritation.

**SAFETY DATA SHEET**

Revision Date: 01/07/2017

Print Date: 1/16/2017

SDS Number: R0279263

Version: 1.5

Pliogrip™ 7400 ADHESIVE  
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 in various countries  
 163992

**Product:**

Remarks: May cause skin irritation and/or dermatitis.

**Components:****POLYMER:**

Result: Irritating to skin.

Remarks: Information given is based on data obtained from similar substances.

**SCAVENGER:**

Result: Slight, transient irritation

**URETHANE PREPOLYMER:**

Result: No skin irritation

**Components:****4,4'-DIPHENYLMETHANE DIISOCYANATE:**

Result: Irritating to skin.

**TALC:**

Result: Slight, transient irritation

**PROPYLENE CARBONATE:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

**Components:****POLYMER:**

Result: No eye irritation

Remarks: Information given is based on data obtained from similar substances.

Result: Irritating to eyes.

**SCAVENGER:**

Result: Slight, transient irritation

**URETHANE PREPOLYMER:**

Result: No eye irritation

**Components:****4,4'-DIPHENYLMETHANE DIISOCYANATE:**

Result: Irritating to eyes.

**SAFETY DATA SHEET**

Revision Date: 01/07/2017

Print Date: 1/16/2017

SDS Number: R0279263

Version: 1.5

Pliogrip™ 7400 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 163992

**TALC:**

Result: Slight, transient irritation

**PROPYLENE CARBONATE:**

Species: Rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

**Respiratory or skin sensitisation**

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Components:****POLYMER:**

Test Type: Maximisation Test

Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Result: The product is a skin sensitiser, sub-category 1A.

Assessment: May cause sensitization by inhalation.

Result: The product is a respiratory sensitiser, sub-category 1A.

**URETHANE PREPOLYMER:**

Assessment: May cause sensitisation by skin contact.

Assessment: May cause sensitization by inhalation.

**Components:****4,4'-DIPHENYLMETHANE DIISOCYANATE:**

Assessment: May cause sensitization by inhalation.

Assessment: May cause sensitisation by skin contact.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****POLYMER:**

Genotoxicity in vitro

: Test Type: Ames test

Result: negative

Remarks: Information given is based on data obtained from similar substances.

Genotoxicity in vivo

: Test Type: In vivo micronucleus test

Test species: Rat

Method: OECD Test Guideline 474

Remarks: Information given is based on data obtained from

**SAFETY DATA SHEET**

Revision Date: 01/07/2017

Print Date: 1/16/2017

SDS Number: R0279263

Version: 1.5

Pliogrip™ 7400 ADHESIVE  
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 in various countries  
 163992

similar substances.

**Components:****PROPYLENE CARBONATE:**

Genotoxicity in vitro : Test Type: Ames test  
 Test species: Salmonella typhimurium  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
 Test species: Mouse  
 Cell type: Bone marrow  
 Method: OECD Test Guideline 474  
 Result: negative

**Carcinogenicity**

Not classified based on available information.

**Product:**

Carcinogenicity - Assessment : Methylene bisphenylisocyanate (MDI) aerosol has been reported to be irritating to lungs at a concentration of 1 mg/m<sup>3</sup> with no effect observed at 0.2 mg/m<sup>3</sup>. Although MDI has been reported to cause an increase in non-carcinogenic lung tumors and a single carcinogenic lung tumor at very high concentrations (6 mg/m<sup>3</sup>), it is not classified as a carcinogen by IARC, NTP or OSHA.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

May cause respiratory irritation.

**Components:****POLYMER:**

Exposure routes: Inhalation  
 Target Organs: Respiratory Tract  
 Assessment: May cause respiratory irritation.

**Components:****4,4'-DIPHENYLMETHANE DIISOCYANATE:**

Exposure routes: Inhalation  
 Target Organs: Respiratory system  
 Assessment: May cause respiratory irritation.

**STOT - repeated exposure**

Not classified based on available information.

**Components:****POLYMER:**

Exposure routes: Inhalation

**SAFETY DATA SHEET**

Revision Date: 01/07/2017

Print Date: 1/16/2017

SDS Number: R0279263

Version: 1.5

Pliogrip™ 7400 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 163992

Target Organs: Respiratory Tract

Assessment: May cause damage to organs through prolonged or repeated exposure.

**Components:**

4,4'-DIPHENYLMETHANE DIISOCYANATE:

Exposure routes: Inhalation

Target Organs: Respiratory system

Assessment: May cause damage to organs through prolonged or repeated exposure.

**Aspiration toxicity**

Not classified based on available information.

**Further information****Product:**

Remarks: No data available

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****POLYMER:**

Toxicity to fish : LC50 (*Oryzias latipes* (Japanese medaka)): > 3,000 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : (*Daphnia magna* (Water flea)): > 1,000 mg/l  
 Exposure time: 24 h  
 Test Type: static test  
 Method: OECD Test Guideline 202  
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae : NOEC (*Desmodesmus subspicatus* (green algae)): 1,640 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201  
 Remarks: Information given is based on data obtained from similar substances.

**4,4'-DIPHENYLMETHANE DIISOCYANATE:**

Toxicity to fish : LC50 (*Oryzias latipes* (Orange-red killifish)): > 3,000 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Remarks: Information given is based on data obtained from similar substances.

**SAFETY DATA SHEET**

Revision Date: 01/07/2017

Print Date: 1/16/2017

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Version: 1.5

Pliogrip™ 7400 ADHESIVE  
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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 24 h  
Test Type: static test  
Method: OECD Test Guideline 202  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 10 mg/l  
Exposure time: 21 d  
End point: Reproduction Test  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
Remarks: Information given is based on data obtained from similar substances.

**PROPYLENE CARBONATE:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 1,000 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 900 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 900 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

No data available

**Persistence and degradability****Components:****POLYMER:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 302C



**SAFETY DATA SHEET**

Revision Date: 01/07/2017

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Version: 1.5

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 in various countries  
 163992

**4,4'-DIPHENYLMETHANE DIISOCYANATE:**

Biodegradability : Result: Not biodegradable  
 Biodegradation: 0 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 302C  
 Remarks: Information given is based on data obtained from  
 similar substances.

**PROPYLENE CARBONATE:**

Biodegradability : Result: Readily biodegradable.  
 Biodegradation: 87.1 %  
 Exposure time: 29 d  
 Method: OECD Test Guideline 301B

No data available

**Bioaccumulative potential****Components:****PROPYLENE CARBONATE:**

Partition coefficient: n-  
 octanol/water : log Pow: -0.41

No data available

**Mobility in soil****Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological  
 information : No data available

**Components:****SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

General advice : Do not dispose of waste into sewer.  
 Do not contaminate ponds, waterways or ditches with  
 chemical or used container.  
 Send to a licensed waste management company.  
 Dispose of in accordance with all applicable local, state and  
 federal regulations.

Contaminated packaging : Empty remaining contents.  
 Dispose of as unused product.  
 Empty containers should be taken to an approved waste

**SAFETY DATA SHEET**

Revision Date: 01/07/2017

Print Date: 1/16/2017

SDS Number: R0279263

Version: 1.5

Pliogrip™ 7400 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 163992

handling site for recycling or disposal.  
 Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION****International transport regulations****REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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**MX\_DG**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods

**TDG\_INWT\_C**

Not dangerous goods

**TDG\_RAIL\_C**

Not dangerous goods

**TDG\_ROAD\_C**

Not dangerous goods

**U.S. DOT - INLAND WATERWAYS**

Not dangerous goods

**CFR\_RAIL\_C**

Not dangerous goods



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Revision Date: 01/07/2017

Print Date: 1/16/2017

SDS Number: R0279263

Version: 1.5

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**U.S. DOT - ROAD**

Not dangerous goods

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**SECTION 15. REGULATORY INFORMATION**

**EPCRA - Emergency Planning and Community Right-to-Know Act  
 CERCLA Reportable Quantity**

Components	CAS-No	Component RQ (lbs)	Calculated product RQ (lbs)
4,4'-DIPHENYLMETHANE DIISOCYANATE	101-68-8	5000	14206.159791

**SARA 311/312 Hazards** : Acute Health Hazard  
 Chronic Health Hazard

**SARA 313**  
 4,4'-DIPHENYLMETHANE 101-68-8 35.51 %  
 DIISOCYANATE

**California Prop 65** WARNING! This product contains a chemical known to the State of California to cause cancer.  
 QUARTZ / SAND 14808-60-7

**The components of this product are reported in the following inventories:**

- DSL : All components of this product are on the Canadian DSL
- AICS : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory

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IECSC : On the inventory, or in compliance with the inventory

TSCA : On TSCA Inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**Registration: Trade Secret**

Chemical name	Identification number
POLYMER	254504001-5759
SCAVENGER	254504001-5709
URETHANE PREPOLYMER	800986-5572P

**SECTION 16. OTHER INFORMATION****Further information**

Revision Date: 01/07/2017

NFPA:	HMIS III:						
<p style="text-align: center;">Flammability</p> <p style="text-align: center;">Special hazard.</p>	<table border="1"> <tr> <td>HEALTH</td> <td></td> </tr> <tr> <td>FLAMMABILITY</td> <td></td> </tr> <tr> <td>PHYSICAL HAZARD</td> <td></td> </tr> </table> <p>0 = not significant, 1 = Slight,            2 = Moderate, 3 = High            4 = Extreme, * = Chronic</p>	HEALTH		FLAMMABILITY		PHYSICAL HAZARD	
HEALTH							
FLAMMABILITY							
PHYSICAL HAZARD							

**NFPA Flammable and Combustible Liquids Classification**  
 Combustible Liquid Class IIIB

**Full text of H-Statements**

H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.

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H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.

Sources of key data used to compile the Safety Data Sheet  
 Ashland internal data including own and sponsored test reports  
 The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH : American Conference of Industrial Hygienists  
 BEI : Biological Exposure Index  
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
 FG : Food grade  
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
 H-statement : Hazard Statement  
 IATA : International Air Transport Association.  
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization  
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
 IMDG : International Maritime Code for Dangerous Goods  
 ISO : International Organization for Standardization  
 logPow : octanol-water partition coefficient  
 LCxx : Lethal Concentration, for xx percent of test population  
 LDxx : Lethal Dose, for xx percent of test population.  
 ICxx : Inhibitory Concentration for xx of a substance  
 Ecxx : Effective Concentration of xx  
 N.O.S. : Not Otherwise Specified  
 OECD : Organization for Economic Co-operation and Development  
 OEL : Occupational Exposure Limit  
 P-Statement : Precautionary Statement

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PBT : Persistent , Bioaccumulative and Toxic  
 PPE : Personal Protective Equipment  
 STEL : Short-term exposure limit  
 STOT : Specific Target Organ Toxicity  
 TLV : Threshold Limit Value  
 TWA : Time-weighted average  
 vPvB : Very Persistent and Very Bioaccumulative  
 WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act  
 DOT : Department of Transportation  
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act  
 HMIRC : Hazardous Materials Information Review Commission  
 HMIS : Hazardous Materials Identification System  
 NFPA : National Fire Protection Association  
 NIOSH : National Institute for Occupational Safety and Health  
 OSHA : Occupational Safety and Health Administration  
 PMRA : Health Canada Pest Management Regulatory Agency  
 RTK : Right to Know  
 WHMIS : Workplace Hazardous Materials Information System

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